

**ABSTRACT OF THE DISCLOSURE**

A system and method of video stream encryption. A storage device stores a first quantization scale and a second quantization scale. An encryption application 5 receives video data, a first quantization scale and a second quantization scale, generating quantized data by dividing the video into the first quantization scale, generating supplementary data by subtracting the quantized data multiplied by the first quantization scale 10 from the video data, generating quantized supplementary data by dividing the supplementary data into the second quantization scale, and generating encrypted quantized supplementary data using variable length encoding and symmetrical/asymmetrical encryption algorithm.